

Notice of Allowability

Application No.

09/653,202

Examiner

Thoi V. Duong

Applicant(s)

LEE ET AL.

Art Unit

2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed November 02, 2005.
2. ☒ The allowed claim(s) ~~is~~/are 1-22 and 24.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

1. This office action is in response to the Amendment filed November 02, 2005.
Accordingly, claims 7, 12 and 24 were amended, and claim 23 was cancelled.
Currently, claims 1-22 and 24 are pending in this application.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with George G. Ballas on May 20, 2005.

In the title: change the title as "Method of forming a seal pattern comprising bent portions circumventing a conductive contact dot for liquid crystal display device."

In the claims:

Claim 6: in line 13, after "between", delete "a" and insert --the--; and after "first vertex and", delete "a" and insert --the--.

Claim 7: - in line 14, after "between", delete "a" and insert --the--; and after "contact dot and", delete "a" and insert --the--; and

- in line 15, delete "millimeters" and insert --millimeter--.

Claim 12: - in line 10, after "between", delete "a" and insert --the--; and after "contact dot and", delete "a" and insert --the--; and

- in line 11, delete "millimeters" and insert --millimeter--.

Claim 20: in line 2, after "between", delete "a" and insert --the--; and after "first vertex and", delete "a" and insert --the--.

Claim 21: in line 2, after "between", delete "a" and insert --the--; and after "contact dot and", delete "a" and insert --the--.

Claim 24: - in line 12, after "between", delete "a" and insert --the--; and after "contact dot and", delete "a" and insert --the--; and
- in line 13, delete "millimeters" and insert --millimeter--.

Allowable Subject Matter

3. Claims 1-22 and 24 are allowed.

The following is an examiner's statement of reasons for allowance:

Re claims 1 and 5-7, none of the prior art of record suggests or discloses alone or in combination that a seal pattern has a plurality of triangular bent portions, each having an open side and a vertex opposite the open side, the vertex directed toward an inside a display area of the second substrate, wherein each triangular bent portion circumvents a conductive contact dot.

Re claims 9-12, 22 and 24, none of the prior art of record suggests or discloses alone or in combination that a seal pattern has a plurality of semicircular bent portions, the semicircular bent portions being bent toward an inside of the second substrate wherein each semicircular bent portion circumvents a conductive contact dot,

wherein, re claims 9 and 11, the semicircular portion has a radius of about 2.5 to about 10 millimeters;

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wherein, re claims 10 and 22, each of the two ends of the semicircular bent portion has a radius of about 0.5 to about 2 mm; and

wherein, re claims 12 and 24, a distance between a conductive contact dot and a semicircular portion is about 0.1 to about 1 millimeter.

The most revelant reference, US 5,717,476 to Kanazawa, fails to disclose or suggest a seal pattern having a plurality of bent portions with the above dimensions. As shown in Fig. 2, Kanazawa discloses a sealing pattern 6 having a plurality of bent portions without any specific dimensions, wherein the bent portions of the seal pattern 6 are bent toward an inside of the second substrate 2, and each bent portion circumvents a conductive contact dot 10.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thoi V. Duong whose telephone number is (571) 272-2292. The examiner can normally be reached on Monday-Friday from 8:30 am to 4:30 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim, can be reached at (571) 272-2293.

Thoi Duong
01/05/2006



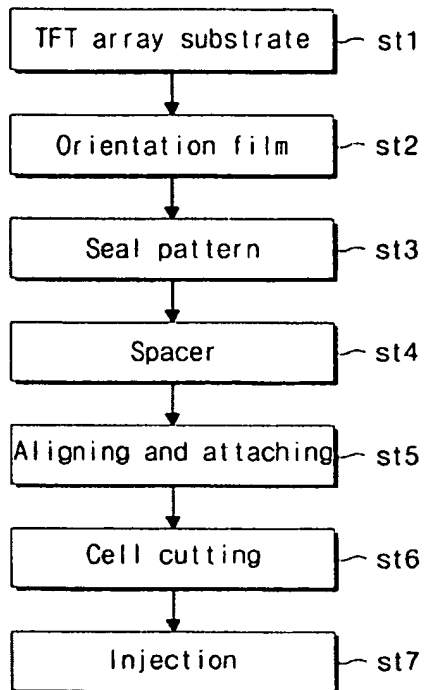

ANDREW SCHECHTER
PRIMARY EXAMINER



REPLACEMENT SHEET

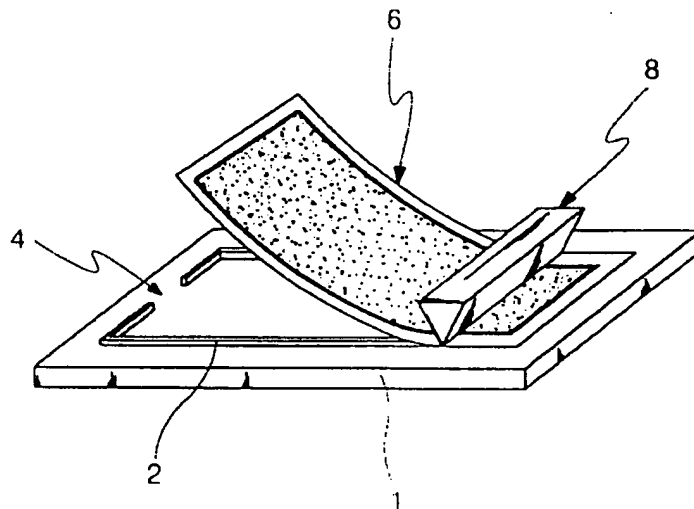
Approved
JrS 01/05/06

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(related art)

FIG 1



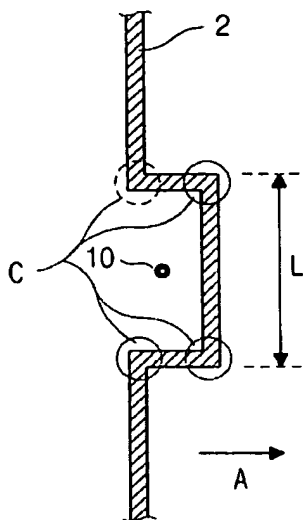
(related art)

FIG 2

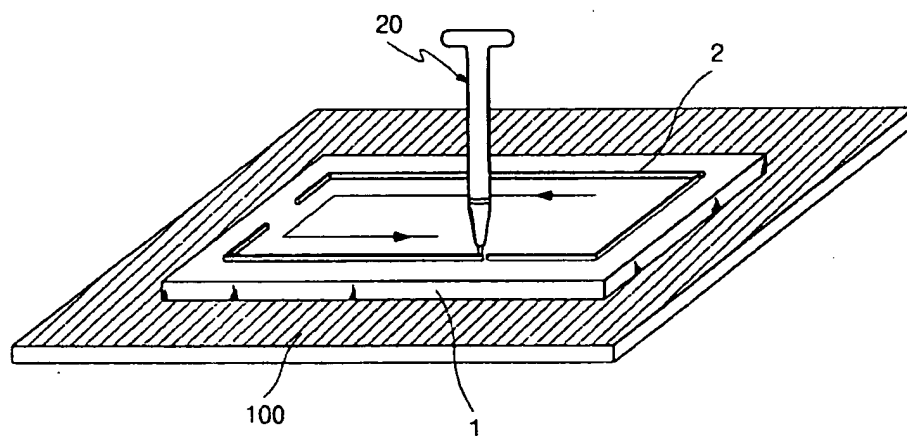
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(related art)
FIG 3



(related art)
FIG 4

REPLACEMENT SHEET

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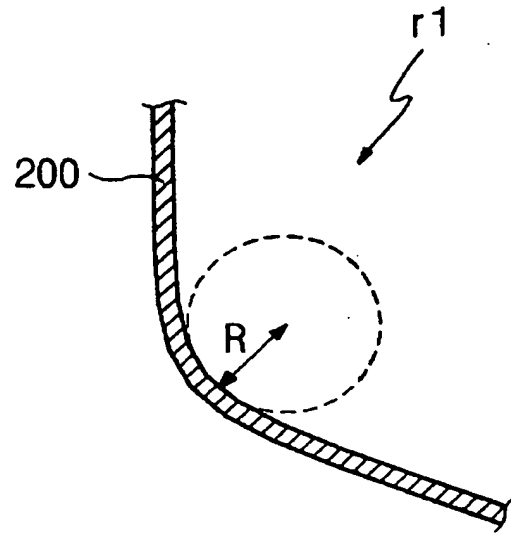


FIG 5

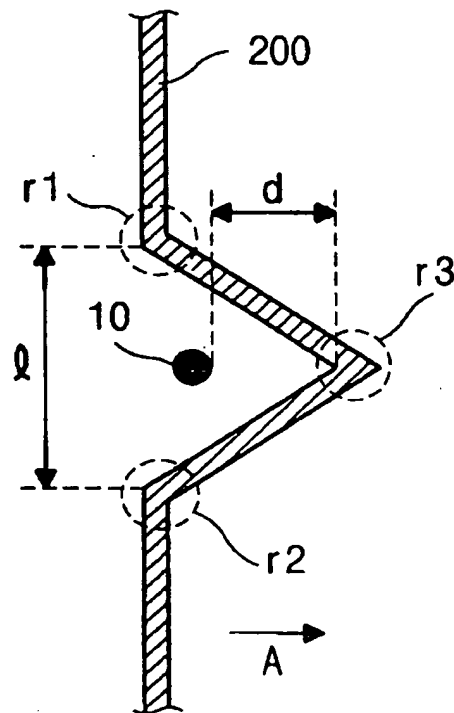


FIG 6

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[Signature]

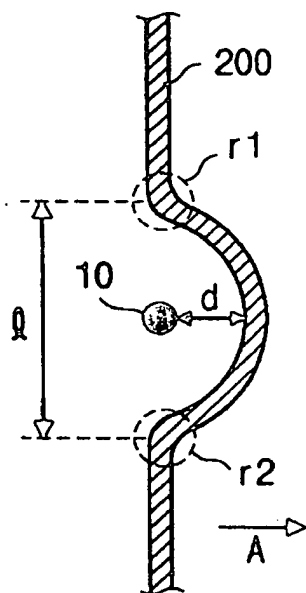


FIG. 7